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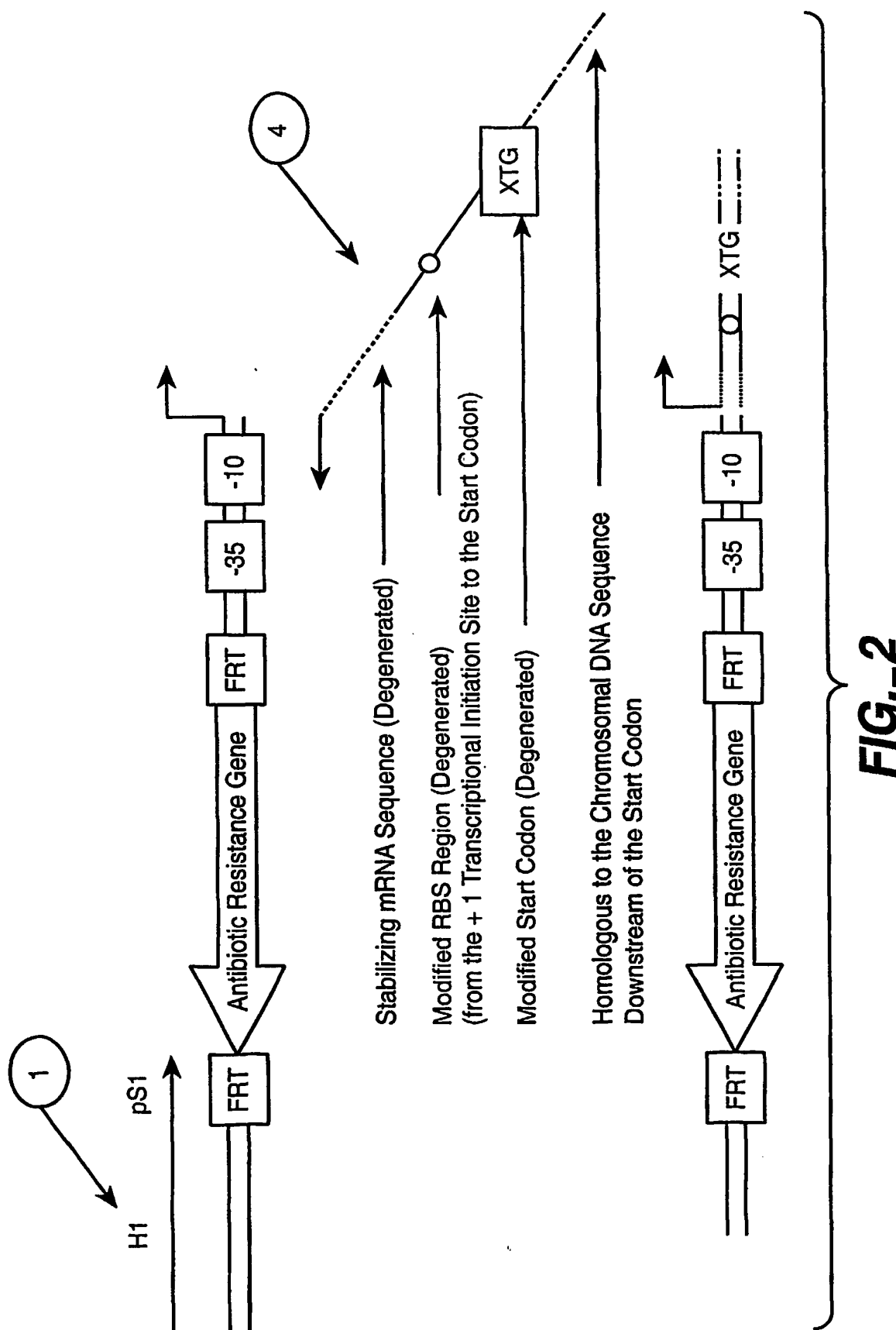


FIGURE 3

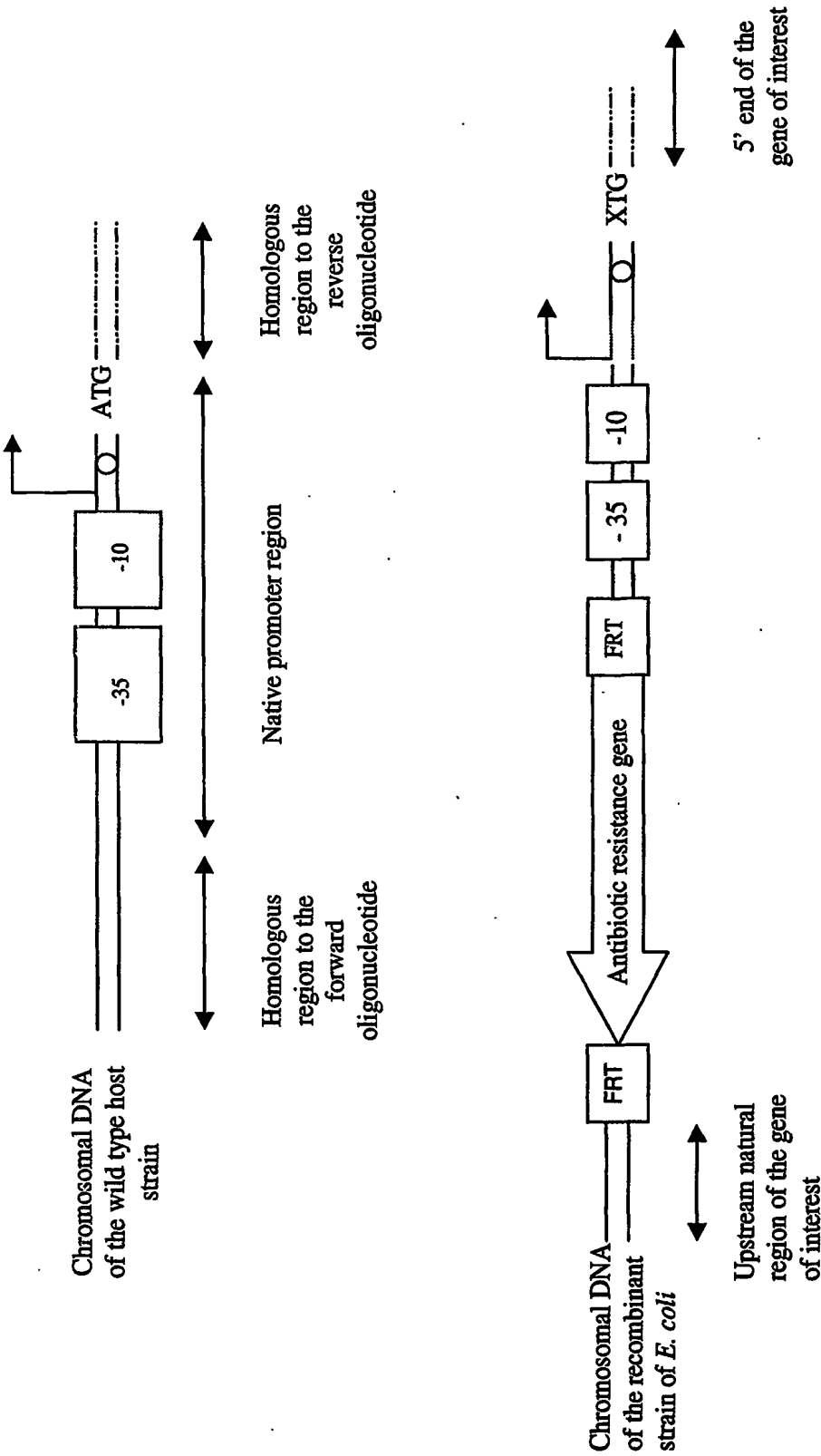
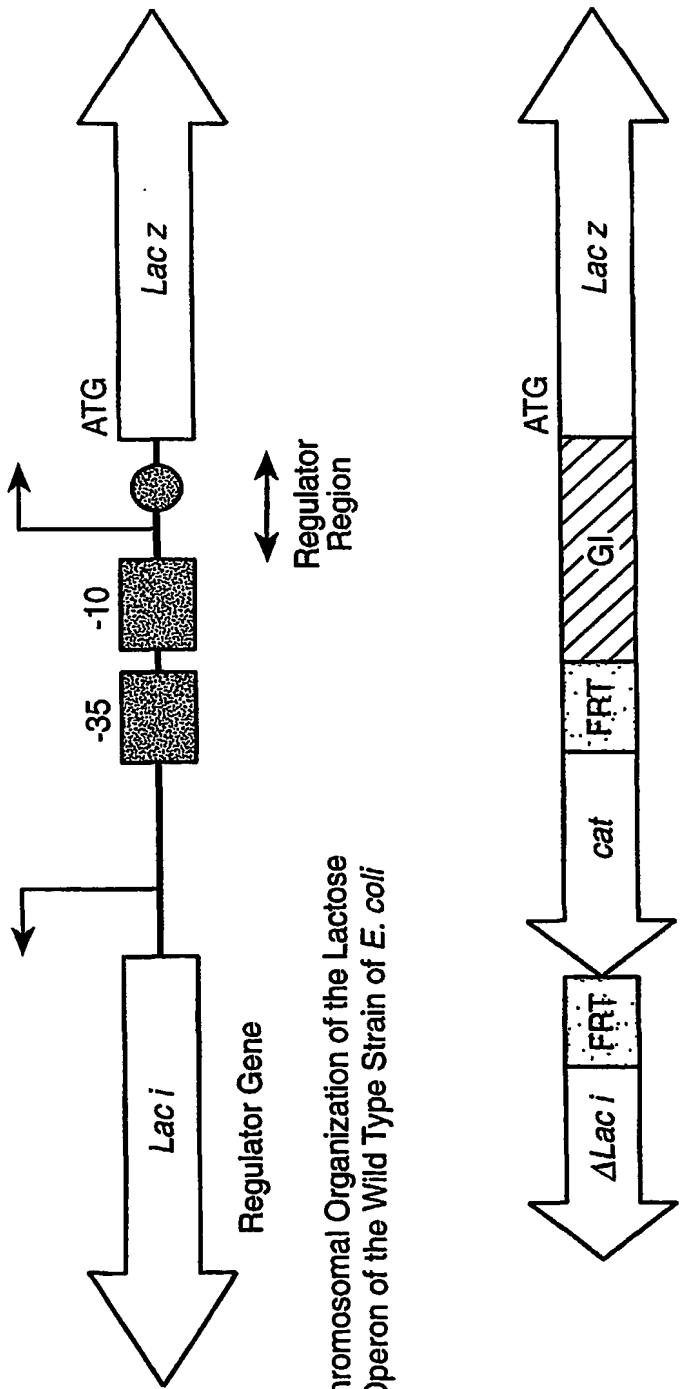


FIGURE 4

	-50	-7	+1	+20	
PH/E20	AACTGCAAAAATAGT TTGACA CCCTAGCCGATAGGCTT TAAAGAT GTACCCAGTTCGATGAGAGCGATAAC				(SEQ ID NO. 3)
PH207	TTTTTAAAAAATTCAT TTGCTA AACGCTTCAAATTCCTCG TATAAT ATACTTCATAAAATTGATAAACAACAAA				(SEQ ID NO. 4)
PN25	TCATAAAAAAATTTAT TTGCTT TCAGGAAAAATTTTCTG TATAAT AGATTCAATAAATTGAGAGAGGAGTT				(SEQ ID NO. 5)
PG25	TGAAAAATAAAAATTC TTGATA AAATTTTCCAATACTAT TATAAT ATTGTTATTAAAGAGGAGAAATTAAC				(SEQ ID NO. 6)
PJ5	ATATAAAAAACCGTTA TTGACA CAGGTGGAAATTTAGAA TATACT GTTAGTAAACCTAATGGATCGACCTT				(SEQ ID NO. 7)
PA1	TTATCAAAAAAGAGTA TTGACT TAAAGTCTAACCTATAG GATACT TACAGCCATCGAGAGGACACGGCGA				(SEQ ID NO. 8)
PA2	CACGAAAAACACAGGTA TTGACA ACATGAAGTAACATGCAGTAAGAT ACAAATCGCTAGGTAACTAGACGC				(SEQ ID NO. 9)
PA3	GGTGAAACAAACCGG TTGACA CACTGAAGTAAACACCG TACGAT GTACCACATGAAACGACAGTGAGTCA				(SEQ ID NO. 10)
PL	TTATCTCTGGCGGTG TTGACA TAAATACCACTGGCGGT GATACT GAGCACATCAGCAGGACGCACTGACC				(SEQ ID NO. 11)
Plac	TTAGGCACCCACGGC TTTACA CTTTATGCTTCCGGCTGGTATGTT GTGTGGAATTGTGAGCGGATAACAAT				(SEQ ID NO. 1)
PlacUV5	CTAGGCACCCACGGC TTTACA CTTTATGCTTCCGGCTGGTATAAT GTGTGGAATTGTGAGCGGATAACAAT				(SEQ ID NO. 12)
PtacI	TTCTGAAATGAGCTG TTGACA ATTAATCATCGGCTCG TATAAT GTGTGGAATTGTGAGCGGATAACAAT				(SEQ ID NO. 2)
Pcon	AAATTCACCGTCGTTG TTGACA TTTTAAAGCTTGGCGGT TATAAT GGTACCATAAGGAGGTGGATCCGGCA				(SEQ ID NO. 13)
Pb1s	TTTTTTTCTAAATACA TTCAAA TATGTATCCGCTCATGA GACAAT AACCCGTATAAATGCTTCAATAATAT				(SEQ ID NO. 14)



Chromosomal Organization of the Lactose Operon of the Wild Type Strain of *E. coli*

Chromosome Organization of the Lactose Operon of the Recombinant Strain of *E. coli* on Chloramphenicol

FIG. 5

FIGURE 6

pLAC (SEQ ID NO. 18)
 AGGC TTTACA CTTTATGCTTCGGGCTCG TATGTT GTGTGGA ATTGTGAGCGGATAACAATTTTCACACAGGAAACAGCT ATGACC
 -35 RBS Start

1.6Gl lacZ (SEQ ID NO. 19)
 GCCC TTGACA ATGCCACATCCTGAGCA AATAAT TCAACCACT AATTGTGAGCGGATAACAATTTTCACACAGGAAACAGCT ATGACC
 -35 RBS start

GI 1.6 (SEQ ID NO. 15)
 GCCC TTGACA ATGCCACATCCTGAGCA AATAAT TCAACCACTAATTGTGAGCGGATAACA

1.5Gl lacZ (SEQ ID NO. 20)
 GCCC TTGACT ATGCCACATCCTGAGCA AATAAT TCAACCACT AATTGTGAGCGGATAACAATTTTCACACAGGAAACAGCT ATGACC
 -35 RBS start

GI 1.5 (SEQ ID NO. 16)
 GCCC TTGACT ATGCCACATCCTGAGCA AATAAT TCAACCACTAATTGTGAGCGGATAACA

1.20Gl lacZ (SEQ ID NO. 21)
 GCCC TTGACG ATGCCACATCCTGAGCA AATAAT TCAACCACT AATTGTGAGCGGATAACAATTTTCACACAGGAAACAGCT ATGACC
 -35 RBS start

GI 1.2 (SEQ ID NO. 17)
 GCCC TTGACG ATGCCACATCCTGAGCA AATAAT TCAACCACTAATTGTGAGCGGATAACA

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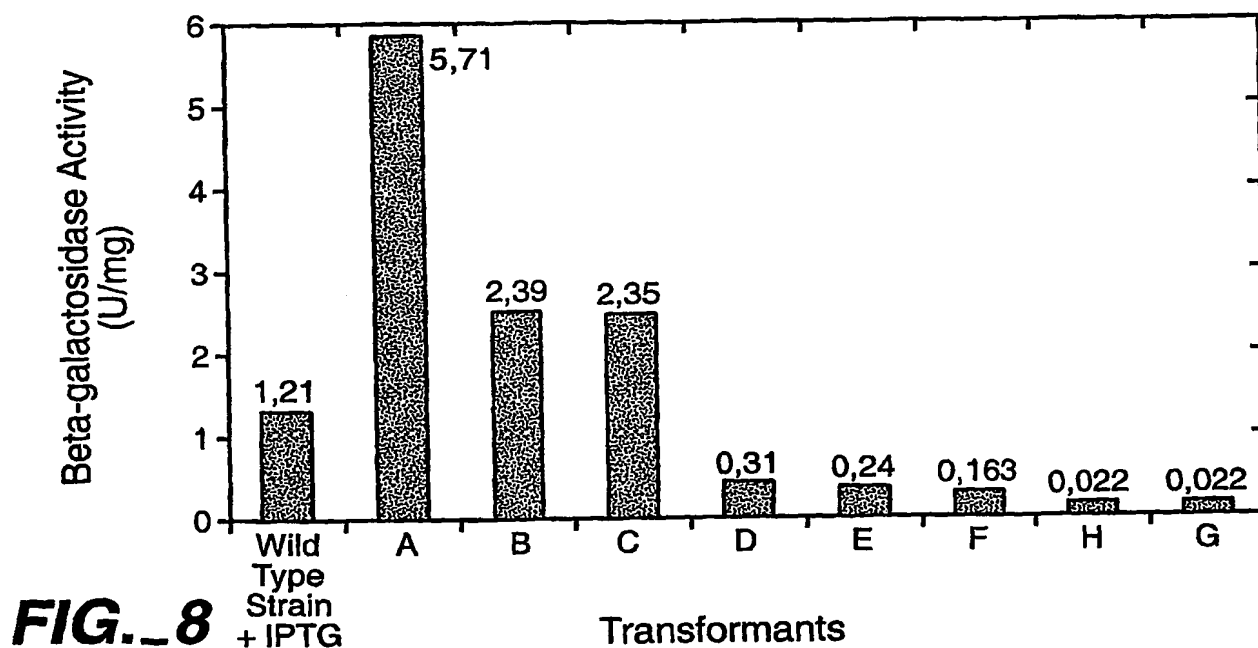
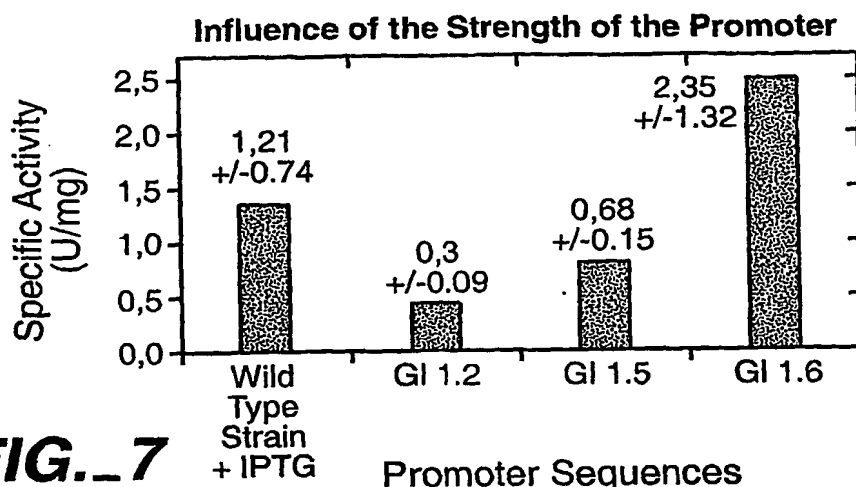


FIG. 9

Transformants	Stabilizing Sequence	RBS Sequence	Specific Activity (U/mg)
mLac RNA 1	GGTCGAG	AAGGAGGAAA	5.71
mLac RNA 2	GGTGGAG	AAGGAGGAAA	11.04
mLac RNA 3	CCTCGAG	AAGGAGGAAA	18.44
mLac RNA 4	GGTGGAC	AAGGAGGAAA	7.3
mLac RNA 5	GCTGGAC	AAGGAGGAAA	4.11
Wild-type Strain + IPTG	NO	AGGAAA	1.21